## **AMENDMENTS TO THE CLAIMS**

- 1. (Original) A nitride semiconductor light emitting device comprising:
- an n-type nitride semiconductor layer;
- an In-containing super lattice structure layer formed above the n-type nitride semiconductor layer;
  - a first electrode contact layer formed above the super lattice structure layer;
  - a first cluster layer formed above the first electrode contact layer;
  - a first In-containing nitride gallium layer formed above the first cluster layer;
  - a second cluster layer formed above the first In-containing nitride gallium layer;
  - an active layer formed above the second cluster layer;
  - a p-type nitride semiconductor layer formed above the active layer; and
  - a second electrode contact layer formed above the p-type nitride semiconductor layer.
  - 2. (Original) The device according to claim 1, wherein the active layer comprises:
- a first quantum well layer having an In<sub>y</sub>Ga<sub>1-y</sub>N well layer/In<sub>z</sub>Ga<sub>1-z</sub>N barrier layer structure;
- a second In-containing nitride gallium layer formed above the first quantum well layer; and
- a second quantum well layer formed above the second In-containing nitride gallium layer to have an In<sub>y</sub>Ga<sub>1-y</sub>N well layer/In<sub>z</sub>Ga<sub>1-z</sub>N barrier layer structure.
- 3. (Currently Amended) The device according to claim 1, further comprising a buffer layer formed downbelow the n-type nitride semiconductor layer, and a substrate formed downbelow the buffer layer.
- 4. (Original) The device according to claim 1, wherein the n-type nitride semiconductor layer is doped with indium (In).

- 5. (Original) The device according to claim 3, wherein the buffer layer has one selected from an AlInN structure, an AlInN/GaN layered structure, an InGaN/GaN super lattice structure, an  $In_xGa_{1-x}N/GaN$  layered structure, and an  $Al_xIn_yGa_{1-x-y}N/In_zGa_{1-z}N/GaN$  layered structure.
- 6. (Original) The device according to claim 1, wherein the first electrode contact layer is a Si-In co-doped nitride gallium layer.
- 7. (Original) The device according to claim 1, wherein the first cluster layer and/or the second cluster layer are formed to have a thickness of atomic scale.
- 8. (Original) The device according to claim 1, wherein the cluster layers are formed of SiN<sub>a</sub>.
- 9. (Original) The device according to claim 1, wherein the first In-containing nitride gallium layer has a surface shape grown in a spiral mode.
- 10. (Original) The device according to claim 1, wherein the first In-containing nitride gallium layer has a surface shape grown and connected up to a surface of the active layer.
- 11. (Original) The device according to claim 1, wherein the active layer has a single quantum well structure or a multi quantum well structure, which is has an In<sub>x</sub>Ga<sub>1-x</sub>N well layer/In<sub>y</sub>Ga<sub>1-y</sub>N barrier layer.
- 12. (Original) The device according to claim 11, wherein the InxGa1-xN well layer/InyGa1-yN barrier layer have indium contents of 0<x<0.35 and 0<y<0.1, respectively.
- 13. (Original) The device according to claim 1, wherein the first In-containing nitride gallium layer is expressed as  $In_xGa_{1-x}N$ , and has a value of 1 < x < 0.1.

14. (Original) The device according to claim 11, further comprising a SiN<sub>a</sub> cluster layer

formed between the In<sub>x</sub>Ga<sub>1-x</sub>N well layer and the In<sub>y</sub>Ga<sub>1-y</sub>N barrier layer of the active layer to

have a thickness of atomic scale.

15. (Original) The device according to claim 1, further comprising a SiNa cluster layer

formed between the active layer and the p-nitride semiconductor layer to have a thickness of

atomic scale.

16. (Original) The device according to claim 1, wherein the second electrode contact

layer is formed to have one selected from an In<sub>x</sub>Ga<sub>1-x</sub>N/In<sub>y</sub>Ga<sub>1-y</sub>N super lattice structure, an

In<sub>x</sub>Ga<sub>1-x</sub>N super grading structure and (In<sub>x</sub>Ga<sub>1-x</sub>N/In<sub>y</sub>Ga<sub>1-y</sub>N super lattice)/n-GaN layered

structure.

17. (Currently Amended) The device according to elaim 1claim 16, wherein In<sub>x</sub>Ga<sub>1</sub>.

<sub>x</sub>N/In<sub>y</sub>Ga<sub>1-y</sub>N layers of the second electrode contact layer have a thickness of 2-50Å, respectively

and alternately.

18. (Original) The device according to claim 14, wherein the In<sub>x</sub>Ga<sub>1-x</sub>N/In<sub>y</sub>Ga<sub>1-y</sub>N layers

of the second electrode contact layer have a total thickness of less than 200Å.

19. (Original) The device according to claim 1, wherein the second electrode contact

layer has a doped silicon.

20. (Original) The device according to claim 1, wherein the n-type nitride semiconductor

layer and the In-containing super lattice structure formed above the n-type nitride semiconductor

layer is repeatedly formed.

21. (Currently Amended) The device according to elaim 1claim 16, wherein the In-

containing super lattice structure layer formed of In<sub>x</sub>Ga<sub>1-x</sub>N/In<sub>y</sub>Ga<sub>1-y</sub>N is provided at least one.

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22. (Original) The device according to claim 1, wherein the p-type nitride semiconductor layer is formed to have a multi-layered structure in which a doped amount of magnesium is sequentially increased.

- 23. (Original) The device according to claim 2, wherein the second In-containing nitride gallium layer has a chemical formula of  $In_xGa_{1-x}N$  (0<x<0.1), and has a thickness of 300-2000  $\square$ .
  - 24. (Original) A nitride semiconductor light emitting device comprising:
  - a first electrode contact layer;
  - a first cluster layer formed above the first electrode contact layer;
  - a first In-containing nitride gallium layer formed above the first cluster layer;
  - a second cluster layer formed above the first In-containing nitride gallium layer;
  - an active layer formed above the second cluster layer; and
  - a p-type nitride semiconductor layer formed above the active layer.
- 25. (Original) The device according to claim 24, wherein the first and/or second cluster layers are/is formed of SiN<sub>a</sub>.
  - 26. (Original) The device according to claim 24, wherein the active layer comprises:
- a first quantum well layer having an In<sub>y</sub>Ga<sub>1-y</sub>N well layer/In<sub>z</sub>Ga<sub>1-z</sub>N barrier layer structure;
- a second In-containing nitride gallium layer formed above the first quantum well layer; and
- a second quantum well layer formed above the second In-containing nitride gallium layer to have a structure of at least one of  $In_yGa_{1-y}N$  well layer/ $In_zGa_{1-z}N$  barrier layer.
- 27. (Original) The device according to claim 24, further comprising a second electrode contact layer formed above the p-type nitride semiconductor layer.

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28. (Original) The device according to claim 27, wherein the second electrode contact layer has an In-containing super lattice structure.

29. (Original) The device according to claim 24, further comprising a Si-doped Incontaining super lattice structure formed above the p-type nitride semiconductor layer.

30. (Original) The device according to claim 24, wherein the first electrode contact layer comprises:

an In-doped GaN layer;

an  $In_xGa_{1-x}N/In_yGa_{1-y}N$  super lattice structure layer formed above the In-doped GaN layer; and

a Si-In co-doped GaN layer formed above the  $In_xGa_{1-x}N/In_yGa_{1-y}N$  super lattice structure layer.

31. (Original) The device according to claim 24, wherein the active layer has a single quantum well structure or a multi quantum well structure, which has  $In_yGa_{1-y}N$  well layer/ $In_zGa_{1-z}N$  barrier layer.

32. (Original) The device according to claim 24, wherein the active layer is comprised of the  $In_yGa_{1-y}N$  well layer and the  $In_zGa_{1-z}N$  barrier layer, and a  $SiN_a$  cluster layer interposed therebetween.

33. (Original) The device according to claim 24, further comprising a SiN<sub>a</sub> cluster layer formed between the active layer and the p-nitride semiconductor layer.

34. (Original) A nitride semiconductor light emitting device comprising:

an n-type first electrode contact layer;

a first SiNa cluster layer formed above the first electrode contact layer;

a first In-containing nitride gallium layer formed above the first SiN<sub>a</sub> cluster layer; a second SiN<sub>a</sub> cluster layer formed above the first In-containing nitride gallium layer; an active layer formed above the second SiN<sub>a</sub> cluster layer, for emitting light; a p-type nitride gallium layer formed above the active layer; and an n-type second electrode contact layer formed above the p-type nitride gallium layer.

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35. (Original) A nitride semiconductor light emitting device comprising:

an n-type first electrode contact layer;

a strain control layer formed over the first electrode contact layer;

an active layer formed over the strain control layer, for emitting light, to have an  $In_yGa_{1-y}N$  well layer, a  $SiN_a$  cluster layer having a thickness of atomic scale, and an  $In_zGa_{1-z}N$  barrier layer;

a p-type nitride gallium layer formed above the active layer; and an n-type second electrode contact layer formed above the p-type nitride gallium layer.

36. (Original) A nitride semiconductor light emitting device comprising:

an n-type first electrode contact layer;

a strain control layer formed over the first electrode contact layer;

an active layer formed above the strain control layer;

a SiN<sub>a</sub> cluster layer formed above the active layer;

a p-type nitride semiconductor layer formed above the SiNa cluster layer; and

an n-type second electrode contact layer formed above the p-type nitride semiconductor layer.

37. (Original) A nitride semiconductor light emitting device comprising:

an n-type first electrode contact layer;

a strain control layer formed above the first electrode contact layer;

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an active layer formed above the strain control layer to have a first quantum well layer, a second quantum well layer, and an  $In_xGa_{1-x}N$  layer interposed between the first quantum well layer and the second quantum well layer;

a p-type nitride semiconductor layer formed above the active layer; and an n-type second electrode contact layer formed above the p-type nitride semiconductor layer.

38. (Original) A nitride semiconductor light emitting device comprising:

an n-type first electrode contact layer;

an active layer formed above the first electrode contact layer, for emitting light;

a p-type nitride semiconductor layer formed above the active layer; and

an n-type second electrode contact layer formed above the p-type nitride semiconductor layer to have an  $In_xGa_{1-x}N/In_yGa_{1-y}N$  super lattice structure.

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